

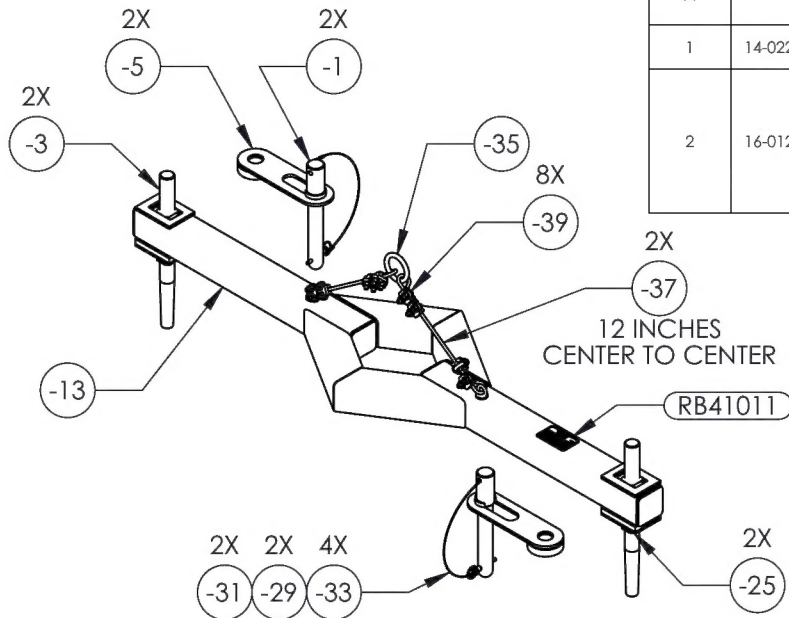


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REVISIONS


REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		CH'D T/N WAS RBT101261-101 IS RB T101261-101. REMOVED REF. BELL P/N'S FROM BOM FOR -1, -3, AND -5. -3 AND -5 CORRECTED ENGRAVE NOTE P/N'S. -21 AND -23 MOVED TO SEPARATE SHEETS. -25 ADDED 4X R.13 DIMENSION. CH'D DIM. PRECISION FROM .XXX TO .XX ON NON-CRITICAL PARTS.	7/29/13	CFS	RW
1	14-0229	UPDATED TO NEW DWG STANDARD. ADDED CRATE TO BOM. -13 ADDED NOTES  AND  . -35 CORRECTED P/N WAS 3355T71 IS 33555T71. -37 SHT 1 ADDED 12 INCHES CENTER TO CENTER.	12/24/2014	RJC	JAG
2	16-0125	UPDATED TO NEW STANDARD. ADDED RB41011 PLACARD -1, -3 CH'D FINISH WAS CAD PLATE YELLOW QQ-P-414F, TYPE II, CLASS II IS ZINC PLATE ASTM B633 TYPE I SC2. -5 ADDED DIM 1.255. -7 CH'D DIMS WAS $\varnothing 1.255$ IS $\varnothing 1.20$, WAS (.25) IS .25. -9 CH'D DIMS WAS ($\varnothing 3.00$) $\varnothing 3.00$, WAS $\varnothing 1.255$ IS $\varnothing 1.20$. -13 CH'D DIMS WAS 1.07 IS (1.07), WAS 8X .31 IS 4X .31. -21 CH'D DIM WAS (.250) IS .25. -23 CH'D DIM WAS (.500) IS .50. -25 ADDED DIM .75, .70. -7, -9, -19, -21, -23 CH'D MAT'L WAS 1018 IS 1018/1020 CR. -15, -17, -19, -25 CH'D DIMS WAS (.188) IS .19. -15, -17, -19, -21, -23, -25 CH'D TOLERANCES WAS .XXX \pm .005 IS .XXX \pm .010. WAS .XX \pm .01 IS .XX \pm .03. -15, -17 CH'D DIMS WAS (2X 3.00) IS 2X 3.00.	8/18/2016	DEW	SM



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	2	PIN	4140/4142		2
			-3	2	TAPER PIN	4140/4142		3
	X		-5	2	WELDMENT			4
	1		-7		PLATE	1018/1020 CR		5
	1		-9		RING	1018/1020 CR		6
	1		-11		SPLIT RING	CARBON STEEL TUBE		7
	X		-13	1	FXTURE WELDMENT			8
	2		-15		MAIN TUBE	A500		9
	4		-17		ANGLE TUBE	A500		10
	4		-19		END CAP	1018/1020 CR		11
	2		-21		DOUBLER	1018/1020 CR		12
	2		-23		DOUBLER 2	1018/1020 CR		13
			-25	2	RUBBER PAD	RUBBER		14
	2	B/O	-27		PAD EYES	S.S.	5/8 (MCMaster-CARR #3024T18)	8
		B/O	-29	2	BALL LOCK PIN	S.S.	$\varnothing 1/4$ X 1-1/2 (MCMaster-CARR #92384A036)	1
		B/O	-31	2	LANYARD	COATED STEEL	$\varnothing 1/16$ X 15 OAL (CARR LANE #CL2C)	1
		B/O	-33	4	FERRULE	ALUMINUM	$\varnothing 1/16$ X 3/8 (MCMaster-CARR #3896T31)	1
		B/O	-35	1	RING	S.S.	3/8 X 2 ID (MCMaster-CARR #33555T71)	1
		B/O	-37	2	CABLE	STEEL	$\varnothing 1/4$ 10 FT USABLE (MCMaster-CARR #3323T71)	1
		B/O	-39	8	CABLE CLAMP	S.S.	1/4 (MCMaster-CARR #31985T73)	1
		B/O		1	DART PLACARD	ALUMINUM	RB41011	1
		B/O		1	CRATE ISPM15 CERTIFIED		SPECIALTY CRATE # CRATE I.D. 9 X 21 X 64	N/S
ASSY -13	ASSY -5							

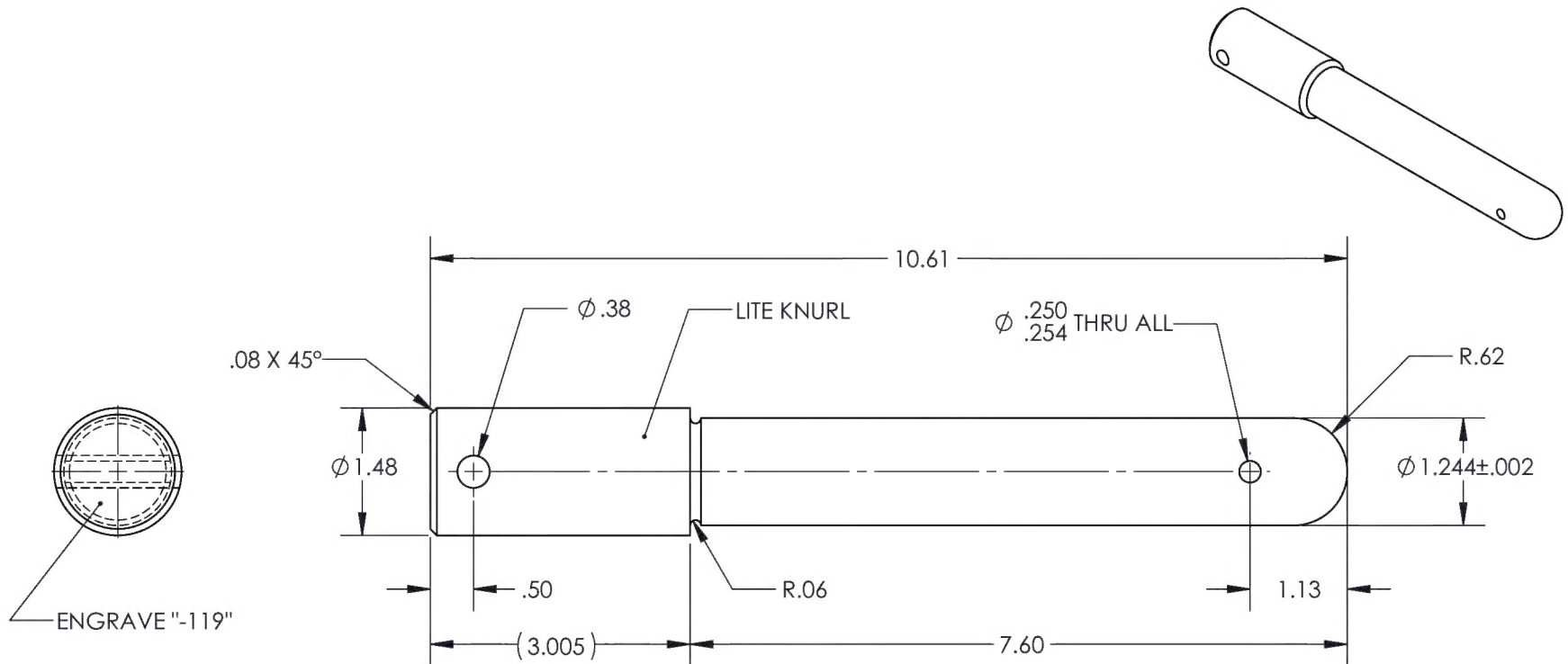
NOTE:
ATTACH 2 RUBBER PADS (-25) WITH AN APPROPRIATE ADHESIVE, ALIGN WITH SLOTS.



TITLE	
DROOP RESTRAINT	
DWG NO.	REV
RB T101261-101	2
MAT'L	UNLESS OTHERWISE SPECIFIED
REAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX \pm .005 FRACTIONS $\pm 1/8$
FINISH	.XX \pm .01 ANGLES $\pm 5^\circ$
	.X \pm .1 SURFACES = 125 
SPEC	
DRAWN BY:	GILBERT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
SCALE	1:12
DATE	6/16/2011
SHEET 1 OF 14	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	-1 CH'D FINISH WAS CAD PLATE YELLOW QQ-P-41 6F, TYPE II, CLASS II IS ZINC PLATE ASTM B633 TYPE I SC2.	8/18/2016	DEW	SM



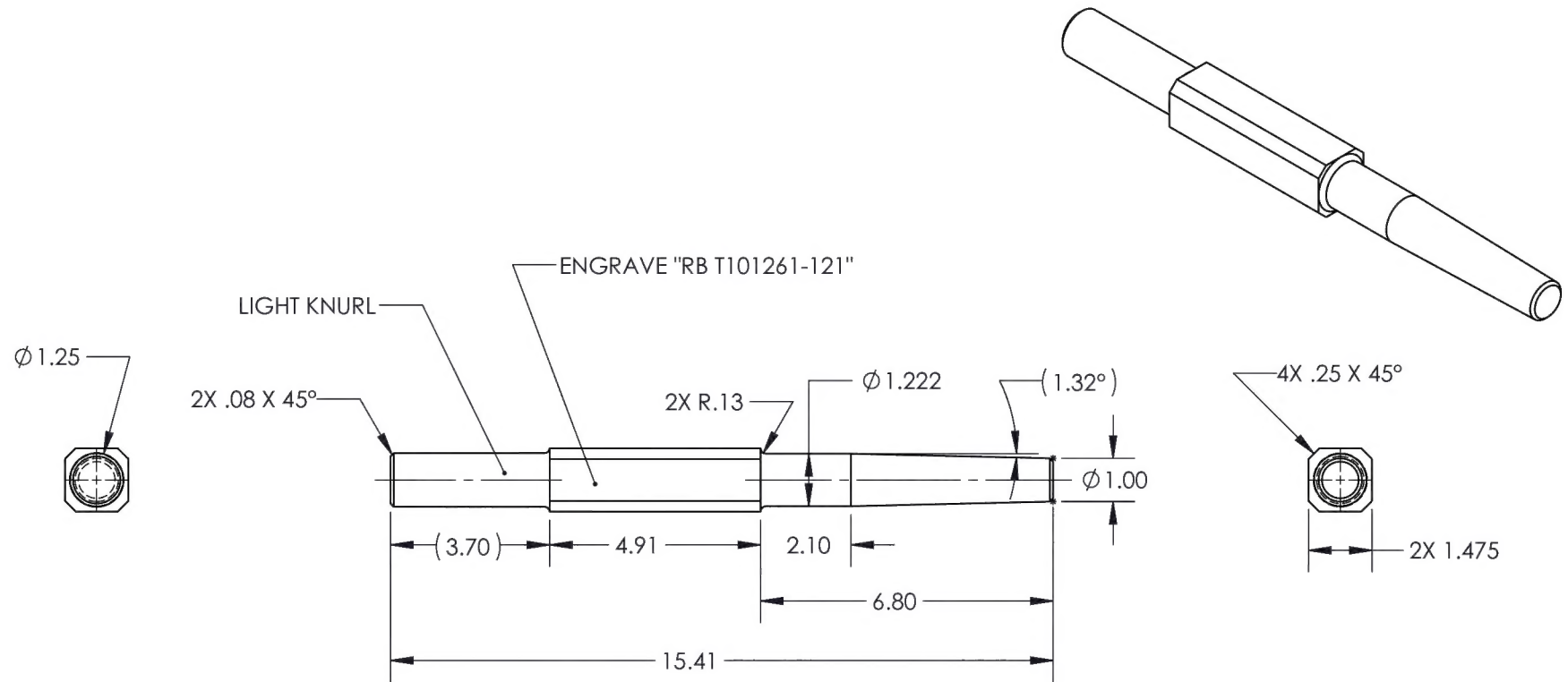
(-1)

PIN

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-1	REV 2
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT 36-40 HRC	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH ZINC PLATE	.XX ± .01 ANGLES ± 1/8
SPEC ASTM B633 TYPE I SC 2	.X ± .1 SURFACES = 125/
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
SCALE 1:2	ASME Y14.5M-2009
DATE 6/16/2011	USED ON MODEL
SHEET 2 OF 14	BELL 412

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-3 CORRECTED ENGRAVE NOTE P/N WAS T101261-121 IS RB T101261-121.	7/30/13	CFS	RW
2	16-0125	-3 CH'D FINISH WAS CAD PLATE YELLOW QQ-P-416F, TYPE II, CLASS II IS ZINC PLATE ASTM B633 TYPE I SC2.	8/18/2016	DEW	SM



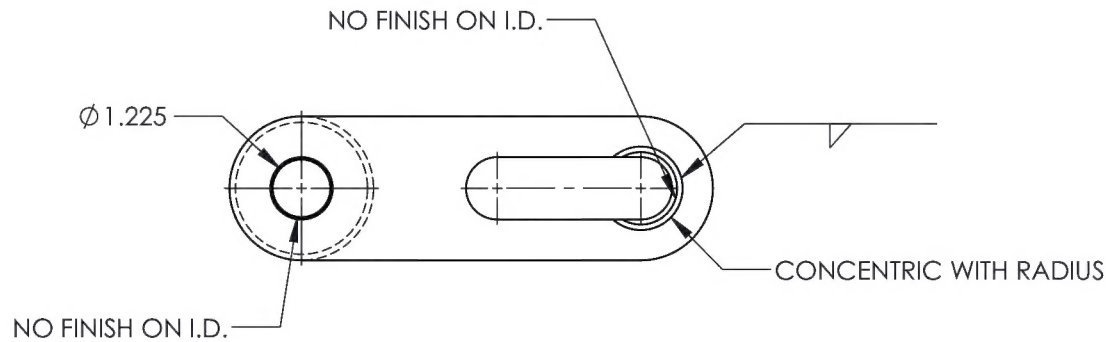
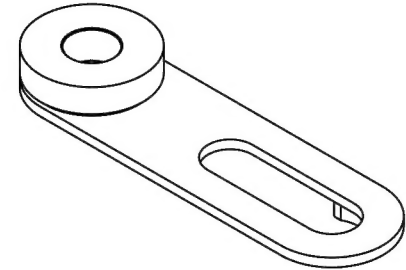
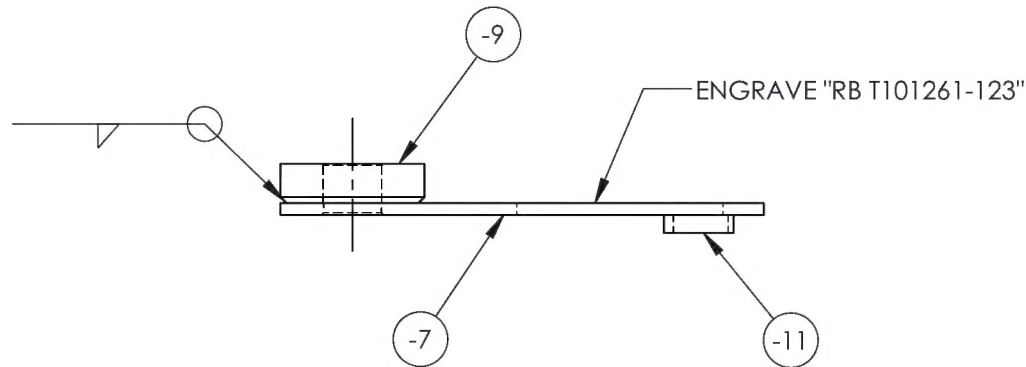
(-3)

TAPER PIN

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-3	REV 2
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT TREAT 36-40 HRC	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± 5°
DRAWN BY: GILBERT	.X ± .1 SURFACES = 125
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 6/16/2011	USED ON MODEL
SHEET 3 OF 14	BELL 412

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-5 CORRECTED ENGRAVE NOTE P/N WAS T101261-123 IS RB T101261-123.	7/30/13	CFS	RW
2	16-0125	-5 ADDED DIM 1.255.	8/18/2016	DEW	SM

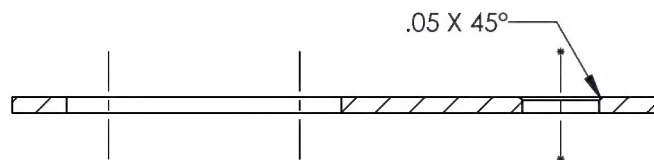


(-5)
WELDMENT

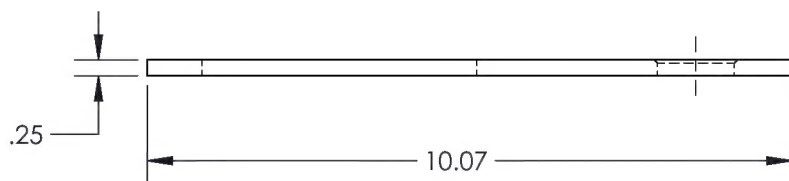
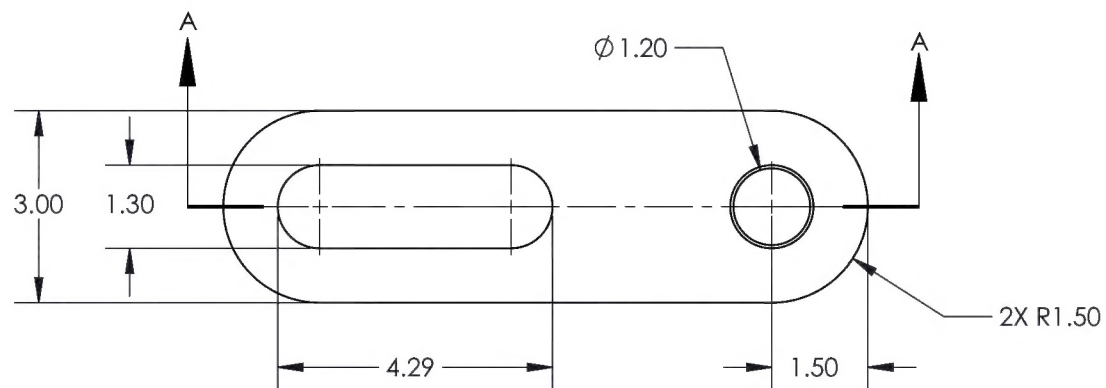
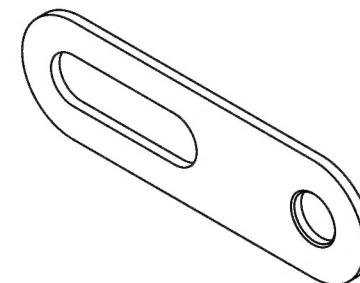
DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-5	REV 2
MAT'L 6061-T6	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT 150	.XXX ± .005 FRACTIONS ± 1/8
FINISH POWDER COAT YELLOW	.XX ± .01 ANGLES ± .5°
SPEC FED #13538	.X ± .1 SURFACES = 125° ✓
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	BELL 412
SCALE 1:2	DATE 6/16/2011
SHEET 4 OF 14	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	-7 CH'D MAT'L WAS 1018 IS 1018/1020 CR. CH'D DIMS WAS Ø 1.255 IS Ø 1.20, WAS (.25) IS .25.	8/18/2016	DEW	SM



SECTION A-A

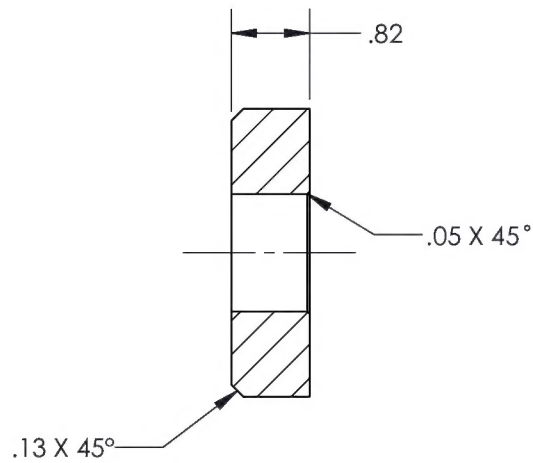


(-7)
PLATE

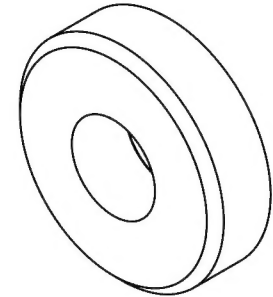
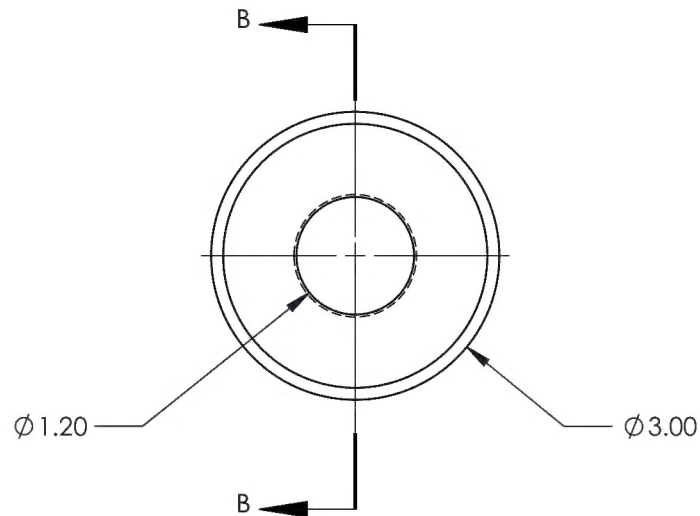
DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-7	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -5 WELDMENT	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC	.XX \pm .01 ANGLES \pm 5°
DRAWN BY: GILBERT	.X \pm .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:3	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 6/16/2011	USED ON MODEL
SHEET 5 OF 14	BELL 412

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	9 CH'D MAT'L WAS 1018 IS 1018/1020 CR. CH'D DIMS WAS (Ø3.00) Ø3.00, WAS Ø1.255 IS Ø1.20.	8/18/2016	DEW	SM



SECTION B-B



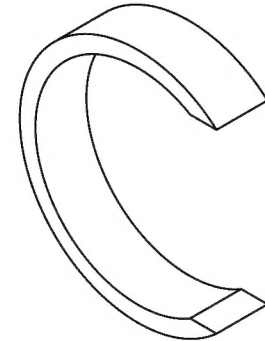
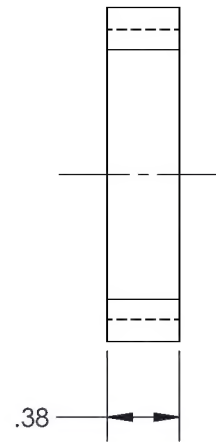
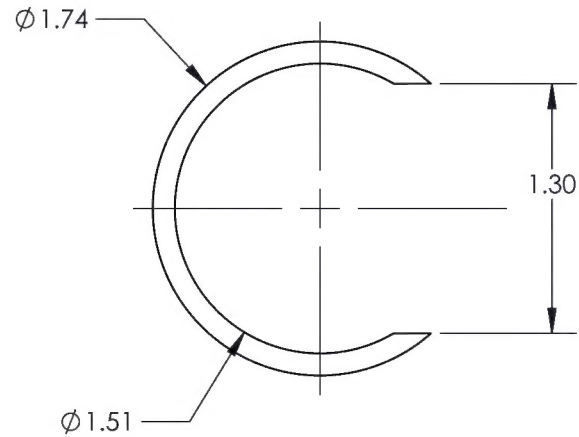
9

RING

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-9	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -5 WELDMENT	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 6/16/2011
	SHEET 6 OF 14

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



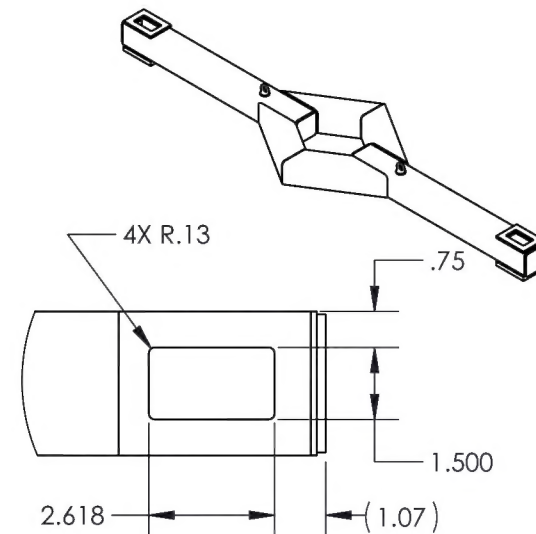
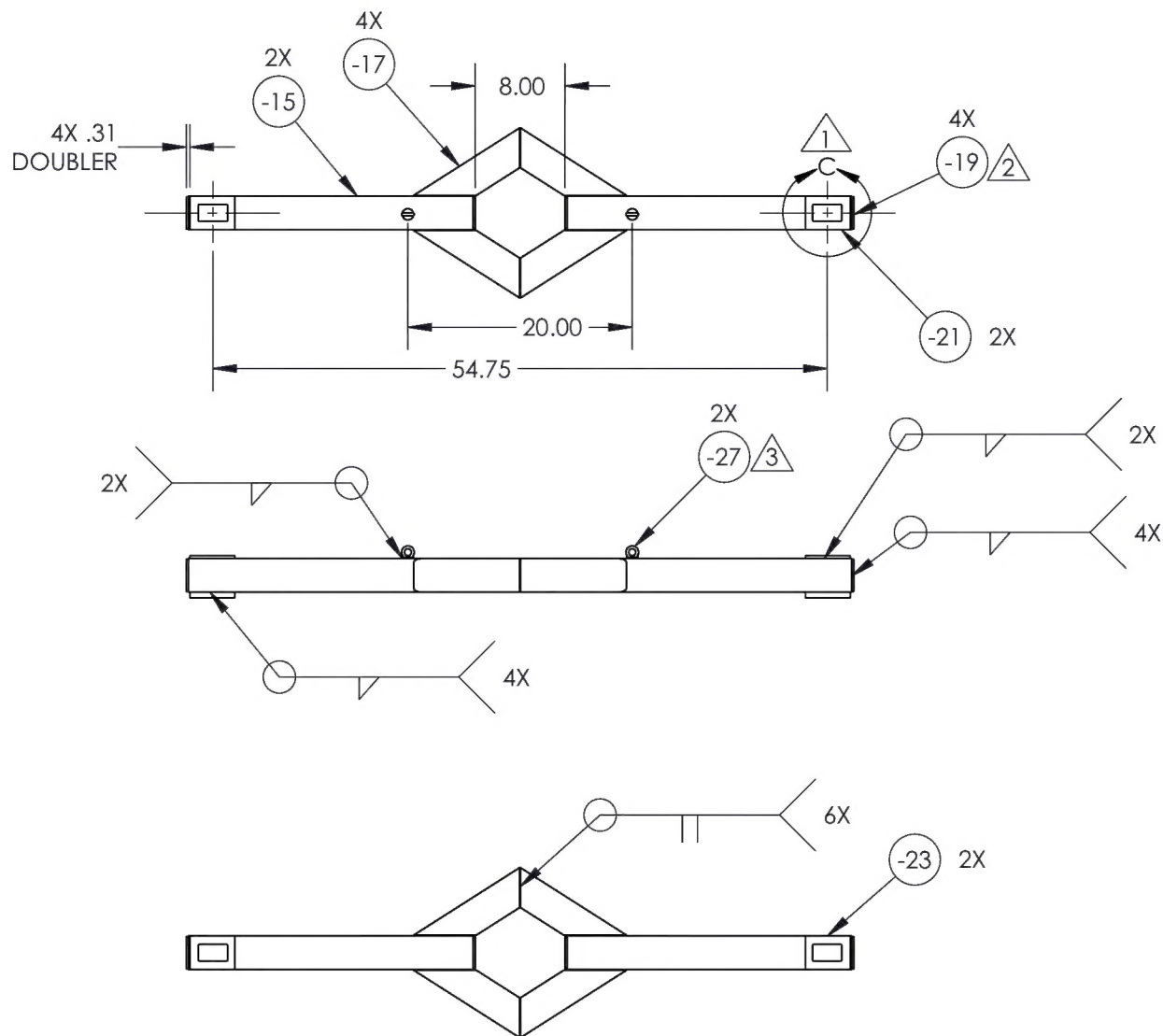
NOTE:
STRESS RELIEVE WITH TORCH BEFORE SPLITTING.

(-11)
SPLIT RING

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-11	REV 2
MAT'L CARBON STEEL TUBE	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -5 WELDMENT	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC	.XX \pm .01 ANGLES \pm 5°
	.X \pm .1 SURFACES = 125/
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 6/16/2011
	USED ON MODEL
	BELL 412
	SHEET 7 OF 14

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	14-0229	-13 ADDED NOTES \triangle AND \triangle .	12/24/2014	RJC	JAG
2	16-0125	-13 CH'D DIMS WAS 1.07 IS (1.07), WAS 8X .31 IS 4X .31.	8/18/2016	DEW	SM



DETAIL C
SCALE 1 : 4
TYP. TO 2 SLOTS
NO FINISH IN SLOTS

NOTES:

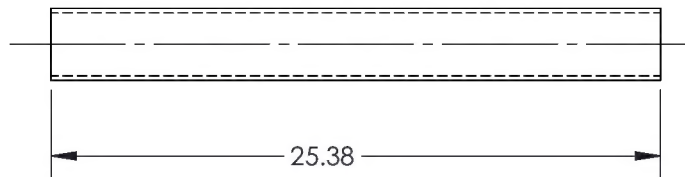
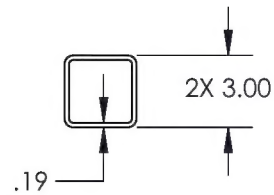
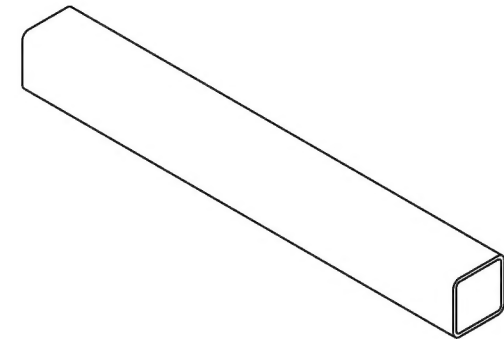
- \triangle 1 AFTER WELDING, MACHINE 2 SLOTS THRU.
- \triangle 2 END CAPS -19 ARE NOT TO BE WELDED UNTIL AFTER MACHINING SLOTS.
- \triangle 3 -27 MUST BE WELDED WITH PROPER FILLER FOR CAST TO MILD STEEL.



TITLE			DROOP RESTRAINT		
DWG NO.			RB T101261-101-13		
			REV 2		
MAT'L			UNLESS OTHERWISE SPECIFIED		
HEAT TREAT			DIMENSIONS ARE IN INCHES		
FINISH			.XXX \pm .005 FRACTIONS \pm 1/8		
SPEC			.XX \pm .01 ANGLES \pm 5°		
DRAWN BY:			.X \pm .1 SURFACES = 125✓		
CHECKED:			1. BREAK ALL SHARP EDGES		
OPPS APPR:			.015 x 45° OR .015R		
QA APPR:			2. DIMENSIONAL LIMITS APPLY		
APPROVED:			AFTER PLATING		
SCALE			3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009		
1:16			USED ON MODEL		
DATE			BELL 412		
6/16/2011			SHEET 8 OF 14		

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	-15 CH'D DIMS WAS (.188) IS .19, WAS (2X 3.00) IS 2X 3.00. CH'D TOLERANCES WAS .XXX ± .005 IS .XXX ± .010, WAS .XX ± .01 IS .XX ± .03.	8/22/2016	DEW	SM



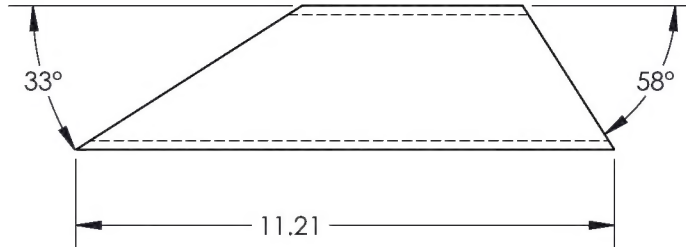
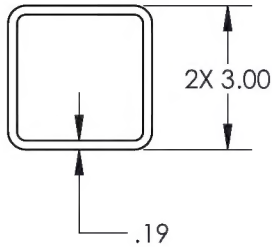
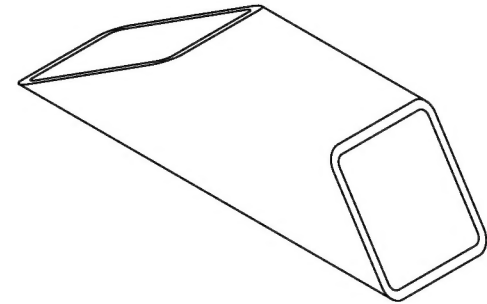
(-15)

MAIN TUBE

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-15	REV 2
MAT'L A500	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -13 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:8	DATE 6/16/2011
	SHEET 9 OF 14

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	-17 CH'D DIMS WAS (.188) IS .19, WAS (2X 3.00) IS 2X 3.00. CH'D TOLERANCES WAS .XXX ± .005 IS .XXX ± .010, WAS .XX ± .01 IS .XX ± .03.	8/22/2016	DEW	SM



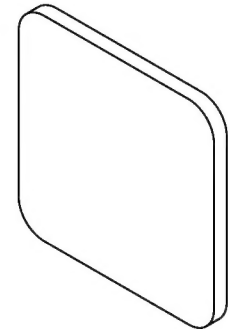
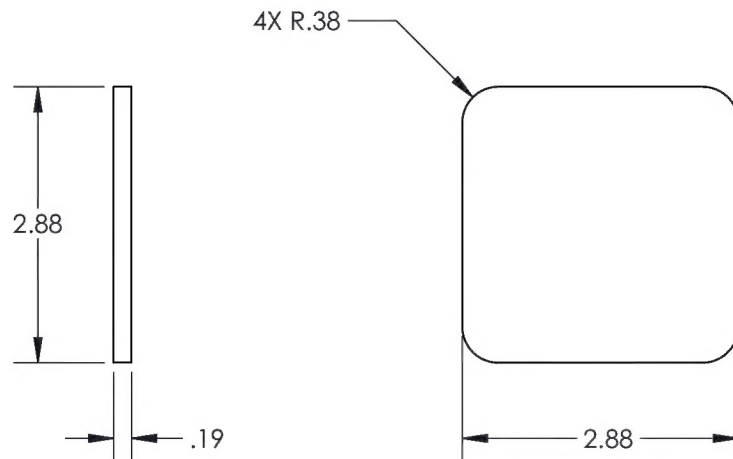
(-17)

ANGLE TUBE

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-17	REV 2
MAT'L A500	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -13 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	USED ON MODEL
DATE 6/16/2011	BELL 412
	SHEET 10 OF 14

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0125	-19 CH'D MAT'L WAS 1018 IS 1018/1020 CR. CH'D DIM WAS (.188) IS .19. CH'D TOLERANCES WAS .XXX \pm .005 IS .XXX \pm .010, WAS .XX \pm .01 IS .XX \pm .03.	8/18/2016	DEW	SM

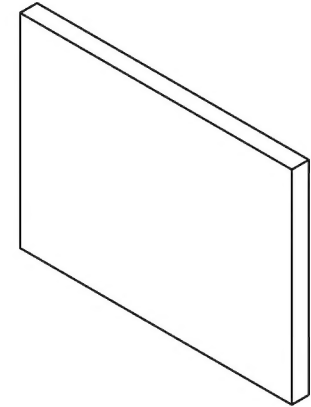
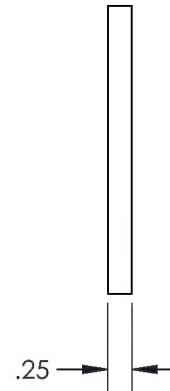
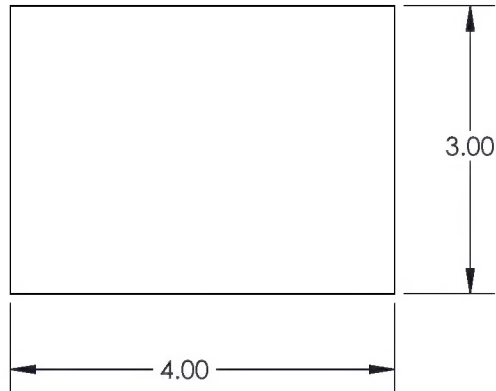


(-19)
END CAP

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-19	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -13 WELDMENT	.XXX \pm .010 FRACTIONS \pm 1/8
SPEC	.XX \pm .03 ANGLES \pm 1°
DRAWN BY: GILBERT	.X \pm .1 SURFACES = 125° ✓
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 6/16/2011	USED ON MODEL
SHEET 11 OF 14	BELL 412

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-21 MOVED TO SEPARATE SHEET 12.	7/29/13	CFS	RW
2	16-0125	-21 CH'D MAT'L WAS 1018 IS 1018/1020 CR. CH'D DIM WAS (.250) IS .25. CH'D TOLERANCES WAS .XXX \pm .005 IS .XXX \pm .010. WAS .XX \pm .01 IS .XX \pm .03.	8/18/2016	DEW	SM

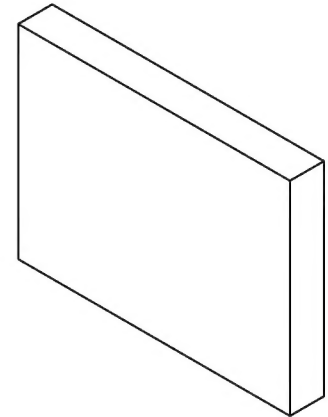
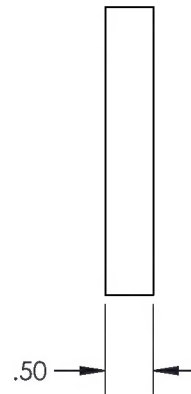
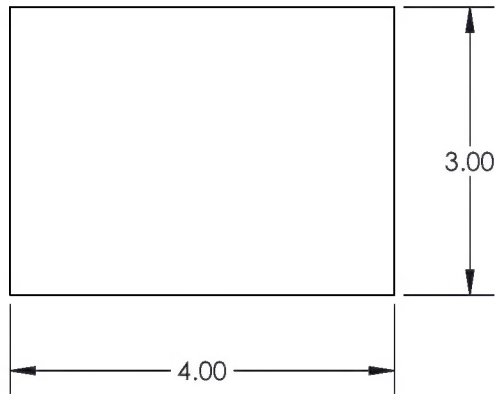


(-21)
DOUBLER

DART AEROSPACE	
TITLE DROOP RESTRANT	
DWG NO. RB T101261-101-21	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -13 WELDMENT	.XXX \pm .010 FRACTIONS \pm 1/8
SPEC	.XX \pm .03 ANGLES \pm 1°
DRAWN BY: GILBERT	.X \pm .1 SURFACES = 125° ✓
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: MACKOVJAK	AFTER PLATING
SCALE 1:2	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 6/16/2011	USED ON MODEL
SHEET 12 OF 14	BELL 412

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-23 MOVED TO SEPARATE SHEET 13.	7/29/13	CFS	RW
2	16-0125	-23 CH'D MAT'L WAS 1018 IS 1020 CR. CH'D DIM WAS [.500] IS .50. CH'D TOLERANCES WAS .XXX ± .005 IS .XXX ± .010, WAS .XX ± .01 IS .XX ± .03.	8/18/2016	DEW	SM

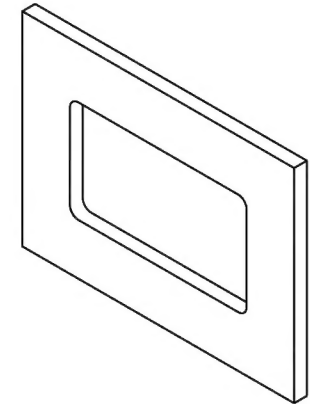
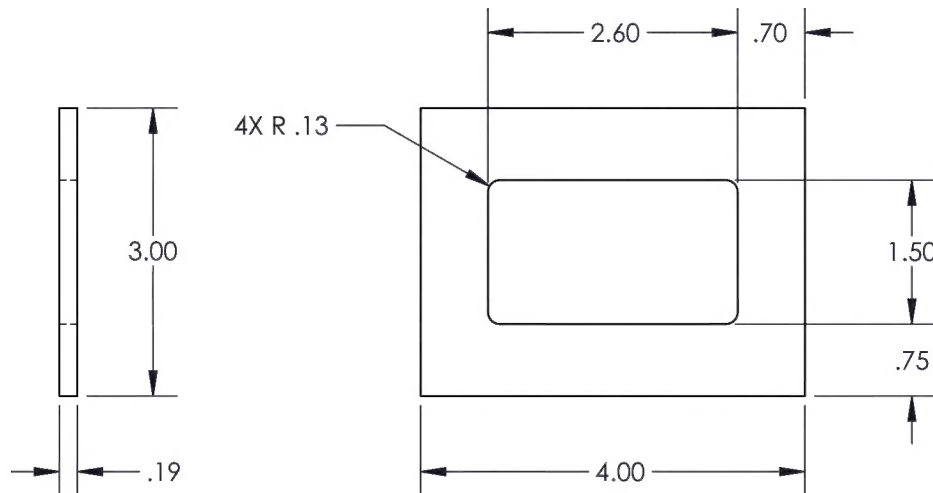


(-23)
DOUBLER 2

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-23	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -13 WELDMENT	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: GILBERT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 6/16/2011
	SHEET 13 OF 14

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-25 ADDED 4X R.13 DIMENSION.	7/29/13	CFS	RW
2	16-0125	-25 CH'D TOLERANCES WAS .XXX ± .005 IS .XXX ± .010, WAS .XX ± .01 IS .XX ± .03; CH'D DIM WAS (.188) IS .19; ADDED DIM .75, .70.	8/18/2016	DEW	SM



(-25)
RUBBER PAD

DART AEROSPACE	
TITLE DROOP RESTRAINT	
DWG NO. RB T101261-101-25	REV 2
MAT'L RUBBER	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
SPEC DUROMETER 65	1. BREAK ALL SHARP EDGES
DRAWN BY: GILBERT	.015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY
OPPS APPR: ANDERSON	AFTER PLATING
QA APPR: LINDSAY	3. INTERPRET DIM AND TOL PER
APPROVED: MACKOVJAK	ASME Y14.5M-2009
SCALE 1:2	DATE 6/16/2011
	SHEET 14 OF 14